Please amend the Claims as follows:

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of the Claims:

What is claimed:

- 1. (canceled)
- 2. (canceled)
- 3. (currently amended) A method for protecting a span in a communication network, the span

connecting a first node to a second node and including a working line and a protection line, the method comprising:

creating a protection virtual path connecting the first node with the second node through at least a third node using a routing-protocol and a signaling- protocol;

monitoring a failure condition in the working line;

switching automatically to the protection line upon detecting the failure condition in the working line;

monitoring a failure condition in the protection line;

switching automatically to the protection virtual path upon detecting the failure condition in both the working line and the protection line,

The method of claim 2 wherein each span in the protection virtual path having a working line and a protection line, the method further comprising:

monitoring a failure condition in the working line in each given span in the protection virtual path; and

switching automatically to a corresponding protection line in the given span upon detecting the failure condition in the working line in the given span.

4 through 19 (canceled)

20. (currently amended) A smart span in a communication network comprising: a first node;

a span connecting the first node with the second node with a direct path;

a path type indicator, stored in one of the two nodes, having a value of either a

working type or a protecting type adapted to specify a type of the direct path;

electronic path-creating circuitry in one of the first and second nodes; and

a second node;

a protection virtual path connecting the first and second nodes through a third node, created by the electronic path-creating circuitry, and

an automatic protection switch in one of the first and second nodes adapted to

automatically switch to the protection virtual path upon detecting a failure condition in the span

wherein the electronic path-creating circuitry includes

electronic circuitry adapted to support a routing-protocol; and electronic circuitry adapted to support a signaling- protocol

when the path type indicator being the working type,

The smart span of claim 19 wherein the protection virtual path comprises an additional smart span including:

an additional direct path connecting two adjacent <u>nodes</u> in the protection virtual path; an additional path type indicator for the additional direct path adapted to change the value from the protecting type to the working type upon detecting a failure condition in the span connecting the first node with the second node; and

additional electronic path-creating circuitry in one of the two adjacent nodes adapted to create an additional protection virtual path connecting the two adjacent nodes through at least

another node upon detecting a failure condition in the span connecting the first node with the second node, and

said routing protocol is responsible for discovery of neighbors and link status, reliable

distribution of routing topology information and optimal route determination, and

said signaling protocol provides the capability of establishing, tearing down and

modifying connections across network nodes.

- 21. (currently amended) The smart span of claim 19 20 wherein one of the first node and the second node includes
 - a designated transit list adapted to specify the protection virtual path.
 - 22. (canceled)
- 23. (currently amended) The smart span of claim 19 20 wherein the span connecting the first node with the second node further includes a protection line, the direct path in the span being a working line.
- 24. (original) The smart span of claim 23 wherein one of the first node and the second node includes an automatic protection switch adapted to switch from the working line to the protection line upon detecting a failure condition on the working line.
 - 25. (canceled)
 - 26. (canceled)